

090706Z 110000

**FIG. 1A**

[illegible]

A

A

# FIG. 1B

A		B	
388	K	Q	S.cerevisiae
397	D	Q	S.pombe
527	Q	Q	Drosophila
489	Q	Q	Human
429	Q	Q	S.cerevisiae
354	Q	Q	S.pombe
597	Q	Q	Drosophila
552	Q	Q	Human
496	Q	Q	S.cerevisiae
418	Q	Q	S.pombe
664	Q	Q	Drosophila
618	Q	Q	Human
553	Q	Q	S.cerevisiae
473	Q	Q	S.pombe
733	Q	Q	Drosophila
687	Q	Q	Human
623	Q	Q	S.cerevisiae
543	Q	Q	S.pombe
798	Q	Q	Drosophila
752	Q	Q	Human
693	Q	Q	S.cerevisiae
612	Q	Q	S.pombe
863	Q	Q	Drosophila
817	Q	Q	Human
761	Q	Q	S.cerevisiae
680	Q	Q	S.pombe
933	Q	Q	Drosophila
887	Q	Q	Human

# Fig. 1C

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818	P T G C G E G F S F L K T S M K G G . . . . . F V K . . . . . S . cerevisiae
744	P T G I G E G Y S E I R I S M K G G . . . . . F K P . . . . . S . pombe
1002	P T G C G E G F S Y V R V P N K P T Q T K E E Q E S Q P I K R S V T G T D A D L R R L P L Q R A K E L L R Q F K V P E E E I K K L S R W E V Drosophila
956	P I G C G E G F S Y V K I P N K P T Q Q D D K E L P Q P V K K T V T G T D A D L R R L S L K N A K Q L L R K E G V P E E E I K K L S R W E V Human
839	. . . . . S G S P S S N N S S N K K G T M T H S Y N V A Q Q K A Y D E E I A K I W Y T H T K S L S I S N P . . . . . S . cerevisiae
765	. . . . . A G E T A D D K P E P Q T K . . . . . N A H A Y N V A K Q Q R A Y E E E I N R I W N A I Q K R G L S I N N . . . . . S . pombe
1071	I D V V R T L S T E K A K A G E G M D K F S R G N R F S I A E H Q E R Y K E E C I Q R I F D L Q N R V L A S S E V L S T D E A E S S A S E E Drosophila
1026	I D V V R T M S T E Q A R S G E G P M S K E A R G S R E S V A E H Q E R Y K E E C I Q R I F D L Q N K V L S S T E V L S T D - T D S S S A F E D Human
889	. . . . . F E E M T N P D E I . . . . . N Q I N K . . . . . H V K T D R D D . . . . . K . . . . . S . cerevisiae
812	. . . . . L E E L A K K Y G I . . . . . N S I H D Y V E S N E E I T R E E . . . . . T P S S . pombe
1141	S D L E E L G K M L E N M L S N K K T S T Q L S R E R E E L E R Q E L L R Q L D E E H G G P S G S G G A K G A K G K D D P G Q M L A I N N Drosophila
1095	S D F E E W G K N I E N M L Q N K K T S S Q L S R E R E E Q E R K E I Q R M L A A G S A A S G N . . . . . N H R O D D T A S V T S L I N S S A Human
913	. . . . . K I L K I V R K K R D E N G I I Q R Q T I F I R D P R V I Q G Y I K I K E Q D K E D V N K L L E E D T S K I N N L E E L E K Q K K L L Q S . cerevisiae
843	S D K V I R I V R L Y R D K N G N L E R K Q E T I H D D I V I H A Y L K K R R E I D E Q S T A L D A V P T G D E A I D - R R N R R R L E S . pombe
1211	Q G R I L R I T R T F R G N D G K E Y T R V E T V R R Q P V I D A Y K I R T T K D E Q F I K Q F A T L D E . . . . . Q K K E E M K R E K R R I Q Drosophila
1161	T G R C L K I Y R I F R D E E G K E Y V B C E I V R K P A V I D A Y V R I R T I K D E E F J R K F A L F D E . . . . . Q H R E E M R K E R R I Q Human
981	L E L A N L E K S Q Q R R A A R O N S K R N G . . . . . G A T R T E N S V D N G S D L A G V T D G K A A R N K G K N T T R . . . . . R S . cerevisiae
911	Q E L A K S O K N W E R R A R H A K . . . . . E G I N L N G . . . . . E G R . . . . . K P T I R . . . . . K S . pombe
1279	E Q L R I R I K R N Q E R E R L A O L A Q N Q K L Q P G G M P T S L G D P K S S G G H S H K E R D S G Y K E V S P S R K K F K L K P D L K L K Drosophila
1229	E Q L R R L K R N Q E K E K L . . . . . K G P P E K K P . . . . . K K M K E R P D L K L K Human
10038	C A T C G Q I G H I R T N K S I C P M Y S S K D N P A S P . . . . . K
947	C S N C G Q V G H M K T N K I C P L F G R P E G G L A T M L D K N
1349	C G A C G Q V G H M R T N K A C P L Y S G M Q S S L S Q . . . . . S
1264	C G A C G A I G H M R T N K F C P L Y . . . . . Y Q T N A P P . . . . . S

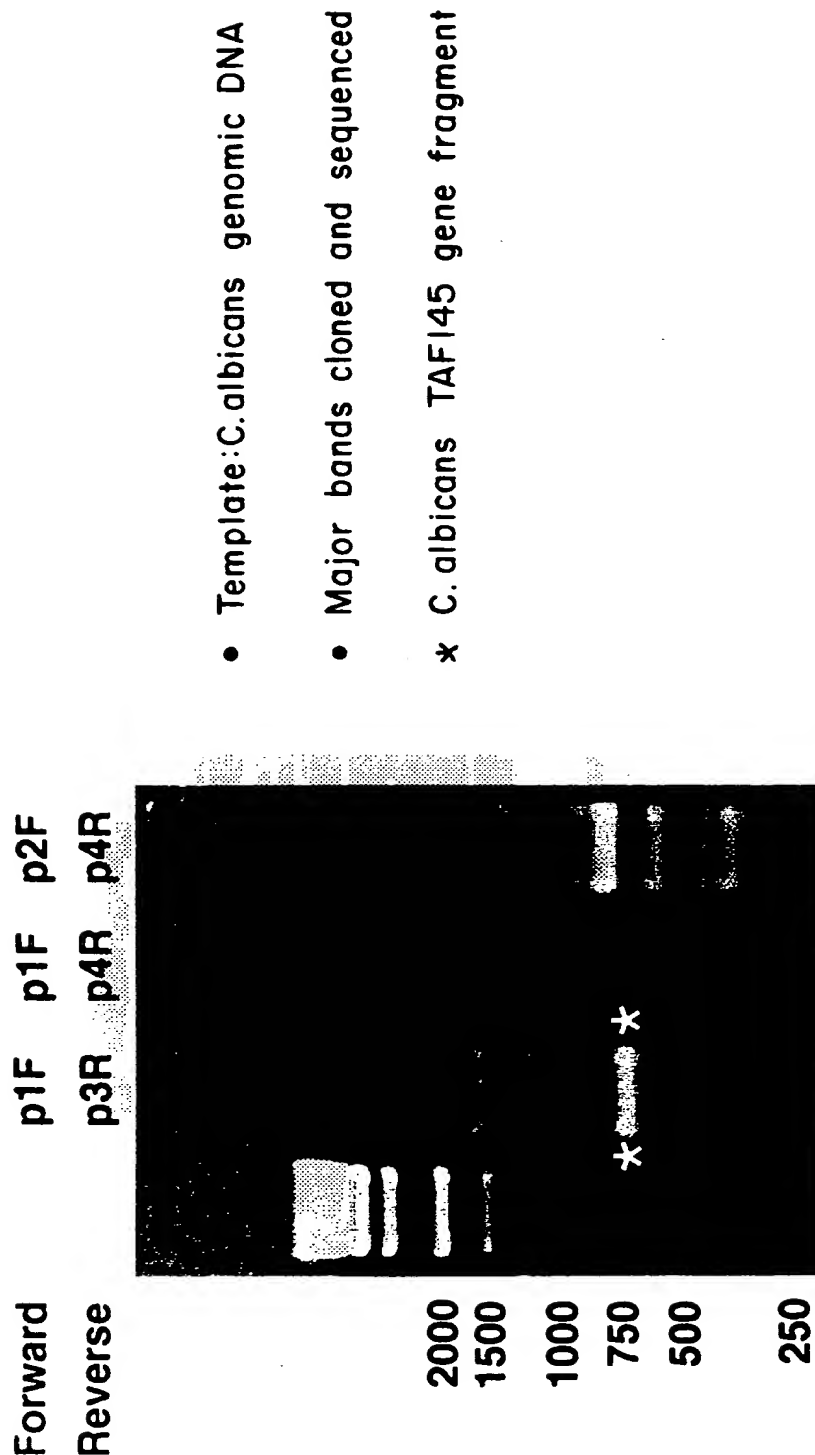
# FIG. 2A

<i>S. cerevisiae</i>	P G P N S R . . . . .	D P T G C G E G . . . . .	G H I R T N K
<i>S. pombe</i>	P G P H S R . . . . .	D P T G I G E G . . . . .	G H M K T N K
<i>Drosophila</i>	P G P N S K . . . . .	D P T G C G E G . . . . .	G H M R T N K
Human	P G P N S K . . . . .	D P T G C G E G . . . . .	G H M R T N K

TAF145p1F	5' CC(AT)GG(AT)CC(AT)AA(C/T)TCIA(A/G)(A/G)	5' GA(C/T)CC(AT)AC(T/C/A)GG(A/T)TGTGG(A/T)GAAGG
TAF145p2F		
TAF145p3R	CT(G/A)GG(T/A)TGACCC(T/A)ACACC(T/A)CTTCC 5'	
TAF145p4R		CC(AT)GT(A/G)TAITC(T/C)AC(T/C/A)TT(G/A)TT 5'

FIG. 2B



## FIG. 3A

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1 aaaaaaaaaaagctccccgaaaaaactgaaaccaaacaacaaaaaagtaaaacaaacccctctacaaaactcttatat 80  
81 tatatccttggttacatttatatacgccaacaacaaaggataataacatttatgtatgataatgccagaagtcacacataaa 160  
161 tcaaacataatagaagaagatgaagacaaaagcatacaataatgtaaatagtagtattccagatgatcaaaattat 240  
241 agaatcatatttcagaacgaaaaaactgcccatgctgaagatgccatcgattatgaagatatagacgaattggcagaagaa 320  
321 gaagatgtg ATG GAG GAT CTA CCC AGG GAT GAG GCA ATA AAT GGA TTA AAC TCA AAC AAC 380  
1 M E D L P R D E A I N G L N S N N 17  
381 AAC AAC AAC CAC GAT AAA GAT GAT GAT GAC GAC GAT GAA TTC AAT AGG TTA CTT CAA GAA 440  
18 N N N H D K D D D D D E F N R L L Q E 37  
441 GGG CAG CCT GAA TTG ACA AAT GAT GAA GAA ATG GCA GCT CAA GCT GCT GCT GAA TCT CAA 500  
38 G Q P E L T N D E E M A A Q A A E S Q 57  
501 TTT GAT GCT TTG TTT GGA AAC TCT AAT GAT TTT GAT AGT AAT ATT AGC CAC CAT GAT CAT 560  
58 F D A L F G N S N D F D S N I S H H D H 77  
561 ATG GGC GGC GAC AGT AAT GGT ATT ATT GAT GAT AAT CAC CAC AGC AGT GTA AAC GAC CAC 620  
78 M G G D S N G I I D D N H H S S V N D H 97  
621 GAT GGT TTA TTC AAC AAT TTA GGA AAT GGT AAT CAT TTG CTA GAT GAT GAT AAT GAT GGC 680  
98 D G L F N N L G N G N H L I D D D N D G 117  
681 TTG AAT GAT TTA GGT GAA CTA TTT GAT GAT CAA CAA GAG GAC AGC AAT GTT ATC AAC ACT 740  
118 L N D L G E L F D D Q Q E D S N V I N T 137

A ————— A

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# FIG. 3B

A		
741	AAG AAG CAT AAG CTA GAT GAC GAT AGC AAC AAC GAT GGC AAG ACT GCT CAA GAA GAT CAA	800
138	K K H K L D D S N N D G K T A Q E D Q	157
801	AAA GAG AAA AAT AAA CGA CAA TTG AAA CGG CAA AAA CTA CAA AAG ATT GTT AAA CAT	860
158	K E K E N K R Q L K R Q K L Q K I V K H	177
861	CTT GAG AAG GAA CAA ATC AAA CGA AAT ATA AAA TAT TAT TTC CCT ACT TAT TCA AGA CAT	920
178	L E K E Q I K R N I K Y Y F P T Y S R H	197
921	AGA CCA TTT AAT TTC CAC AAA TTT TTT TCA CCA AGT CCT CAG TAT TAC CGT TAT CAA AGA	980
198	R P P F N F H K F F S P S P Q Y Y R Y Q R	217
981	CCA GCA ATT GCC TTG TCG AAA AAT ATA AAA CCA TTA ATA CCT ACA AAA GTA AAT CTT GAA	1040
218	P A I A L S K N I K P L I P T K V N L E	237
1041	ATC GAG GTT GAT CAA AAG AAA ATT TTC AAA TTA AGA AGT GCT GAT ACT GCA TCG TTG TCA	1100
238	I E V D Q K K I F K L R S A D T A S L S	257
1101	CAC GAA GAC AAA AAT GTC ACC AAT ATT ACT CAA GAT GAC TTG GAT TTT ATC AAA AAT TTA	1160
258	H E D K N V T N I T Q D D L D F I K N L	277
1161	GAA AGC AAA AGA TCT TCT ATT GAC TCG TTT ATT AAA GAA ATT GAT TAC GTT AAA CGT GAT	1220
278	E S K R S S I D S F I K E I D Y V K R D	297
1221	TGG ACT AAT TGC GAC AAG TTT GAT CAT TAT TCG AAA GAT TTA GTT CTA TCT ACC ACT GAT	1280
298	W T N C D K F D H Y S K D L V L S T T D	317
B		





## FIG. 3D

C																					
1881	ACT	AGT	GAC	TTG	ACA	GTT	GCT	GAT	ACT	GGT	AAT	ATA	ATT	GCC	TTA	GAG	TAT	TCC	GAA	CAG	1940
518	T	S	D	L	T	V	A	D	T	G	N	I	I	A	L	E	Y	S	E	Q	537
1941	TAT	CCA	CCA	ATT	TTA	TCG	AAT	TTC	GGG	ATG	GGG	TCG	AAA	TTG	ATC	AAC	TAT	TAT	CGT	AAA	2000
538	Y	P	P	I	L	S	N	F	G	M	G	S	K	L	I	N	Y	Y	R	K	557
2001	GAA	AGA	CCA	AAC	GAC	ACT	TCA	CGT	CCC	AAG	GCT	CAA	ATT	GGG	GAA	ACT	CAT	ATT	TTG	GGG	2060
558	E	R	P	N	D	T	S	R	P	K	A	Q	I	G	E	T	H	I	L	G	577
2061	GTG	GAG	GAT	AGA	TCC	CCA	TTT	TGG	AAT	TTC	GGT	GAA	GTT	GCT	CCT	GGA	GAT	TTT	GTT	CCC	2120
578	V	E	D	R	S	P	F	W	N	F	G	E	V	A	P	G	D	F	V	P	597
2121	ACA	TTG	TAT	AAT	AAT	ATG	GTA	AGA	GCA	CCA	ATT	TTC	AAG	CAT	GAC	AAC	AAA	CCA	ACT	GAT	2180
598	T	L	Y	N	N	M	V	R	A	P	I	F	K	H	D	N	K	P	T	D	617
2181	TTT	CTA	TTG	GTT	AAA	TCT	CAA	GGG	GCT	GGA	TCG	CAC	CAA	AAA	TTT	TAT	TTG	CGA	GGG	ATC	2240
618	F	L	L	V	K	S	Q	G	A	G	S	H	Q	K	F	Y	L	R	G	I	637
2241	AAT	TTC	AAC	TTT	GCT	GTT	GGT	AAC	ACA	TTC	CCA	GTT	GAA	GTT	CCA	GCT	CCT	CAC	TCG	AGA	2300
638	N	F	N	F	A	V	G	N	T	F	P	V	E	V	P	A	P	H	S	R	657
2301	AAA	GTG	ACA	AAT	ATC	TCA	AAA	AAT	AGG	TTG	AAA	ATG	GTA	GTT	TTC	AGA	GTG	ATG	AAT	AGC	2360
658	K	V	T	N	I	S	K	N	R	L	K	M	V	V	F	R	V	M	N	S	677
D																					

# FIG. 3E

D																					E
2361	TTA	GGA	GTG	CCA	CGT	ATT	TCT	GTG	AAA	GAT	GTT	TCC	AAA	CAT	TTT	CCT	GAG	CAT	AGC	GAT	2420
678	L	G	V	P	R	I	S	V	K	D	V	S	K	H	F	P	E	H	S	D	697
2421	ATG	CAA	AAT	CGA	CAA	AGA	TTG	AAA	GAA	TTT	ATG	GAA	TAC	CAA	AGA	CAA	GGT	GAG	GAC	CAA	2480
698	M	Q	N	R	Q	R	L	K	E	F	M	E	Y	Q	R	Q	G	E	D	Q	717
2481	GGG	TAT	TGG	AAA	GTA	AGA	GGA	TTA	AAC	GAT	GTA	ATT	CCA	GGA	GAA	GAG	GAA	ATT	CGA	ACT	2540
718	G	Y	W	K	V	R	G	L	N	D	V	I	P	G	E	E	E	I	R	T	737
2541	ATG	ATT	ACA	CCA	GAA	GAT	TCT	TCA	TTG	ATG	GAC	ACA	ATG	CAA	TTT	GGA	CAG	CAA	GTA	CTA	2600
738	M	I	T	P	E	D	S	S	L	M	D	T	M	Q	F	G	Q	Q	V	L	757
2601	GAT	GAT	AAT	ATG	GTG	TTA	TTC	GGT	GAG	CAG	AGC	AGA	CAA	GAA	TCA	TCT	AGA	AGT	AGA	AAA	2660
758	D	D	N	M	V	L	F	G	E	Q	S	R	Q	E	S	S	R	S	R	K	777
2661	GGT	GAT	AAA	AGA	GAG	GAT	TCC	ATT	GCG	GAT	GAT	GCA	GAA	AAT	GGA	GAT	GAT	ATA	AAT	AAG	2720
778	G	D	K	R	E	D	S	I	A	D	D	A	E	N	G	D	D	I	N	K	797
2721	GAT	AAA	GAG	AAA	GAG	GTT	GAG	AAA	GAA	AAG	GAA	CAG	GAA	AGA	GAA	GAA	GAG	AAA	GGG	AAA	2780
798	D	K	E	K	E	V	E	K	E	K	E	Q	E	R	E	E	E	K	G	K	817
2781	GAT	AAG	GAA	AAA	GAC	AAG	GAC	AAA	GAA	AAA	GAC	AAA	ACC	GAG	AAG	GAG	AAA	TCA	AAG	AAA	2840
818	D	K	E	K	D	K	D	K	E	K	D	K	T	E	K	E	K	S	K	K	837
2841	TCA	AAG	GAG	CAA	GAC	ACT	GAA	ATT	GAT	GTT	GAA	GAA	TTG	GCA	CCA	TGG	AAC	TTA	TCG		2900
838	S	K	E	Q	D	T	E	I	D	V	E	E	L	A	P	W	N	L	S		857
2901	AGA	AAT	TTT	GTT	ATC	GCC	AAT	CAG	ACC	AAG	ACA	ATG	CTA	CAA	TTG	AAT	GGT	GAA	GGT	GAT	2960
858	R	N	F	V	I	A	N	Q	T	K	T	M	L	Q	L	N	G	E	G	D	877
E																					E

# FIG. 3F

E	2961	CCA	ACT	GGA	ATT	GGG	TTA	GGA	TTT	TCC	ATG	TTG	AGG	GCT	ACA	CAA	AAG	AAC	CCA	TTC	AAA	3020
	878	P	T	G	I	G	L	G	F	S	M	L	R	A	T	Q	K	N	P	F	K	897
	3021	CCG	TTA	TTT	ACC	CCA	CCA	CCA	GAA	AAT	GTC	CCT	AAA	AGT	AAT	GCT	GCA	GCC	CAT	AAT	CAA	3080
	898	P	L	F	T	P	P	P	E	N	V	P	K	S	N	A	A	A	H	N	Q	917
	3081	AAG	TTG	TAC	GAA	CAA	GAG	ATA	AAA	AGA	ATA	TGG	TAC	TCT	CAA	AGA	AGC	TCT	TTA	GTT	GAT	3140
	918	K	L	Y	E	Q	E	I	K	R	I	W	Y	S	Q	R	S	S	L	V	D	937
	3141	CAT	GGG	GAA	GGA	ACT	GAA	TCA	AAG	TTG	CAA	CAG	ATC	TAT	AAT	GAG	TAC	CCG	CCA	GCA	GAT	3200
	938	H	G	E	G	T	E	S	K	L	Q	Q	I	Y	N	E	Y	P	P	A	D	957
	3201	CAT	GAA	TTG	TAT	TTG	AAA	AAC	AAA	CTT	GAA	CAA	GAC	CAA	CAG	GTA	CAA	CAA	CAA	CAA	CAA	3260
	958	H	E	L	Y	L	K	N	K	L	E	Q	D	Q	Q	V	Q	Q	Q	Q	Q	977
	3261	GAT	CCT	CTG	CTT	CAG	GCT	GAT	CAG	CAA	CAG	CAA	CAA	CAA	CAA	CAA	CAG	AAT	CGA	GTT	TTG	3320
	978	D	P	S	L	Q	A	D	Q	Q	Q	Q	Q	Q	Q	Q	Q	N	R	V	L	997
	3321	AGG	ATT	ACT	AGA	AGA	GTG	CGA	GAT	GAA	AAT	GGA	ATA	GTG	CAT	AGA	AAA	GTT	GAA	TTT	ATT	3380
	998	R	I	T	R	R	V	R	D	E	N	G	I	V	H	R	K	V	E	F	I	1017
	3381	CAT	GAT	CCA	AGA	TTA	ATT	AGA	GCA	TAT	GTT	AAG	CGT	AAG	AAA	CAA	ATT	GAA	GAT	GAG	TTA	3440
	1018	H	D	P	R	L	I	R	A	Y	V	K	R	K	K	Q	I	E	D	E	L	1037
	3441	TTG	AAG	AAT	GCT	GAT	GTT	GAT	GAA	ATA	TTA	CCT	ACT	AAC	GAC	AAG	GAG	TTA	AAC	AAA	ATC	3500
	1038	L	K	N	A	D	V	D	E	I	L	P	T	N	D	K	E	L	N	K	I	1057
F																						F

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# FIG. 3G

F

3501 CGT CGT AAA GCA TTG GAA AAG TTG GCT AAT TTG GAG AAA CGG GCA AAA CAA AGC CGG 3560  
 1058 R R K A L E E K L A N L E K R A K Q S R 1077

3561 GCC AAA CCA CCA AAG GAT CTG ATC CAT GCA GCT GCT GCT GCG GCG GCA ACA ATT ATA 3620  
 1078 A K K P P K D L I H A A A A G A T I I 1097

3621 GAT GCT AAT ACT GTG ATG TTA CCA GAT GGA TCG TAT GTT ATT GGT AAG GGT ATT GGT 3680  
 1098 D A N T V M L P D G S Y V I G G K G I G 1117

3681 AAG GGG AAA AGT CGA ACT CGT TGT AAA AAT TGT GGA GCT TAT GGA CAC ATT CGT ACT 3740  
 1118 K G K S R T R R C K N C G A Y G H I R T 1137

3741 AAT GCA AAA TGT CCC TTA TAT AAG AAA ATG GTG CTT GGA ATC GAT GAT TCA GCG GCA 3800  
 1138 N A K C P L Y K K M V L G I D D S A A 1157

3801 GTT GTT GGT TGA caccagcagttagtcgaggtgacgttattggagaaacaaccacatctaccgcagtaactcttga 3876  
 1158 V V G \* 1161

3877 tacacagcgtatcgagggaacagaaatctggctgaagcgtgaccaatggcaatcaaaaatagatatgaaccagagatagga 3956

3957 gttactgagttgtcaaaattagagtggaatacgcgaatgcattttgtctcatcaaaacggacatgaacgagagtgatgat 4036

4037 gttattgtcagtaataatagggttttagtttacatttttaataatgacataataaacaatgtaattattatgcatttctatttgt 4116

# FIG. 4A

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C. albicans MEDLPRDEAINGIANSNNNNHDKDDDDDEFFNRLQEQQPELJNDEEAAQAAESQFDALFGNSNDFDS 70  
 S.cerevisiae GGDEGANSKYTEHLPAVDFFEDEDELADDDDLPEESDANLHPAMMIMGAYDDVNENGAVLGIDSN-SL 105

C. albicans NISHDHMGDSNGLIIDNHHSSVNDHGLFNILGNHLLDDNDGINDLGELFDDQQEDSNVINIKKH 140  
 S.cerevisiae NMQLPETNGDLSQQFILEDDGGTPATSNALFMGMDANEIHLATEIGVLDGSG----ANEIGHSQLSIGGV 171

C. albicans KLDGDSNNDGKTAQEDQKEKENKRQLKRQLKQIVKHLEKEQIKRNIIKYVFTYSRHRPFNFHKEFSESP 210  
 S.cerevisiae NGNDMSINGGFTMEFPMDSGKHKA---TKLD-LINH-EKYLK---KY-FPDEFKCKILKANKLLIYRRS 232

C. albicans QYRYQRPALALSNIKPLIPTKVNLEIEVDQKKIKFLRSADTASLSHEDKNVNITQDDLDFTKNLESK 280  
 S.cerevisiae --VPYHHS-EISRVKKPFMPFLNLKFKVQDDKRLFNSRTISYVAPTYQCKN--NLLQSNSSASRR-GLI 296

C. albicans RSSIDSFKEIDYVKRDWINCKFDHYSKDLVLSTIDWDDDAIINAGDNEYSIVKPINELLNPLDN SK 350  
 S.cerevisiae HVSIDELFP-IKEQQKKRKLIHDEKTISEDLLATDWDQEKLINQGISSTATLADSSMTFNLFSGGYK 365

A\_\_\_\_\_A

# FIG. 4B

A \_\_\_\_\_

C. albicans QNRQKIENDNTNN 364  
 S.cerevisiae LKSLIEDVAEDWQW 379

C. albicans EDDIIFNGQINLDK-LKLDMDNDENLLFVPSK-----KVDATKSVVPSIDKLLLELKENISNDQEYEL 436  
 S.cerevisiae DEIMIIDAKLKESKHAEINMDEKLLIMIEKTNNLAQQKQQLDSSNLLPLNETILQQKFNLSNDKQYQI 449

C. albicans LRKNYNTKQRSQLSNINIEHSVPALRLQTPYKVKLSTDEIRSFHRPVF--NVRPGTLVSFSKLLKLRKK 504  
 S.cerevisiae LKKTHTQTKVRSTISNINIQHSQPAINLQSPFYKVAVERYQLRHFHRENFSGSHIRPGIKIVFSKLRKARKK 519

C. albicans KDKGKSLQQIFSQTSLTVADTIGNIIALEYSEQYPPILSNFGMGSKLINYYRKERENDTSRPKAQIGEIH 574  
 S.cerevisiae RDKGKDVKESFSTSQDLTIGDTAPVYLMYEQTFVALSKFGMANKLINYYRKANEQDTLRPKLPVGETH 589

C. albicans ILGVEDRSPFWNFGEVAPGDFVPTLYNNMVRAPIFKHDKNPIDELLVKSQAGSGHQKFYLRGINFNFAVG 644  
 S.cerevisiae VLGVDKSPFWNFGEVFERGHIVPTLYNNMIRAPVFKHDISGIDFLLTKSSCFGISNRFYLRNINHLFTVG 659

B \_\_\_\_\_

**FIG. 4C**

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[illegible]

C. albicans  
GEDQGYWKVRGLANDVIRGEEIEIRIMITPEDSSIMDTMDFGGQVLDDNMVLFGEQSRQE 771

S. cerevisiae  
GPEKGLWPLKD-DEKLIDNEAVKSLITEPQISOVESMSOGLFOEDNEAYNFD SKLS 786

C. albicans  
VEEELAPWNL SRNFVIANQTKIMLQLANGEGDPTGIGLGFSMLRATQKNPFKPLFTPPPEN/VPKSNAAAHN 916  
:||:| ||||::||: :.:||:||||| ||||:|::| |:::|:

S.cerevisiae  
LEENLLPWNTTKNFINSIQMRAMIOIHGVGDPTGCGEGFSFLKTSMKGGF-----VKSGSPSSNN 846

C. albicans QKLYEQEIKRIWYSQRSSSLVDHCEGTESKLQQIYINEXYPADHELVLKNKLEQDQVQVQQQDPESLQADQQ 986  
:. .:.: | :.:.: : :.:.: |... .| :.:.: | :.:.: | :.:.:  
S.cerevisiae NSSNKKGINIHSY----NVAQOQKAYDEIAKW--YTHIK-SLSISNPFE-----EMINPDEITNOINKH 904

---

**FIG. 4D**

---

C. albicans QQQQQQNRVLRTTRVRDENGIVHRKVEFTHDPRLIRAYVRRKKQIEDELLKNADVDEILPINDKEINLK 1056  
: : : : : |: | | | | : |: | | | | : |: | | | | : |: | | | | : |: | | | |  
S.cerevisiae VKTDRDKKLKI VRKKRDENGLIQQTIFRDPFVIQGYIKKEQDKEDNKLLEEDTSKTNNLEFEK 974

C. albicans	IRRKALEEKLANLEKRAKQSRAKPPKDLIHAAAAAGATTIDANTVMLPDGSYVIGCKGIGCKSKPTRRC	1126
	::   : .       :: .   :. . . ::  : :::  :::  :::  :::	
S.cerevisiae	-QKKLLQLLELANLEK-SQQRRARQNSK-RNCGATRTENSVDNGSD-LAGVIDGKAARN--KCNNTTTRC	1038
C. albicans	KNOGAYCHIRTNAKCPLYKRMVLGIIDD	1154

C. albicans	KNQAYGHIRTNAKCPLYKKMVLGIDD	1154
	.  .       .  : ... .	
S. cerevisiae	ATCGQIGHIRTNKSCFYSSKDNPAEK	1066



**FIG. 5A**

	M	-	--	--	E D L P R D E	--	--	A I N G L N S N N N H H K D	--	--	--	D D	C. albicans
1	M V	K Q	G S	G T	N L A N E D E A Y E A I F G G E F G S L E I G S Y I G G D E G A N S K D	Y T E H L P D A V D F E D	S. cerevisiae						
1	M	--	--	--	S --	--	F D G L I V E N E N T K S G Y	--	--	--	N D	G S. pombe	
28	D D	E F N R L L	Q E G Q P E L T N D E E M A A Q A A -	-	A E S Q F D A L F G N S N D F D S N I S H H D	--	H M G G D C. albicans						
61	D E	--	L A D D D D D L P E E S D A N L H P A M M T M G A Y D D V N E N G A V L G I D S N S L N M Q L P E I N G D	S. cerevisiae									
21	N D	--	L T D L F K Q -	N G T D M S V I N S L L G D T N N P G M N E S P K I L D S S F E N S N	--	P Q D G P S. pombe							
82	- S	--	N G I T D D N H S S V N D H D G L F F N N L G N G N H L L D D D N D G L N D L G E L -	F D D	--	C. albicans							
116	L S	--	Q O F I L E D D G G T P A T S N A L F M G M D A N E I H L A T E I T G V L L D G S G A N E I G H -	--	S. cerevisiae								
70	- N Y E D F D F M G S I H K E F G N N I N E M D D M -	-	E D V S D D N L P E E Q A V N Y T G D K D D E D F G K L L A S. pombe										
128	--	Q Q E D S N V I N T K K H K L D D D -	-	S N N D G K T A Q E D Q K E K E N K R Q L K R Q K -	-	L Q K I V K H L C. albicans							
164	--	S Q L S I G V N G N D M S I N G G -	-	F I M E P D H S D G K H K K A T K L D L I N H E K Y L L K X Y F P D F S. cerevisiae									
126	K E M G E E A G Q V L S G V G F S I P S G L V P P S E P S K T V S S T T E E L Q N E A Q I R E S I -	V K T F E P T E S. pombe											
179	E K E Q I L -	-	K R N I K Y Y F P T Y S R H R P F N F H K F F S P Q Y Y R Y Q R P A I A L S K N I K P L I P T K V N C. albicans										
217	E K G K I L K W N K L I -	-	Y R R S V P Y H W H S -	-	E I S R V K K P F M P L N L K S. cerevisiae								
184	E R G V L L N F S E L F -	-	K P K P V K L A P -	-	P K K K T P K V C V P G R L T S. pombe								
236	L E I E V D Q K K I F K L R S -	-	A D T A S L S H E D K N V T -	-	N I T Q D D L D F I K N L E S K R S C. albicans								
255	F K V Q Q D D K R L F N S R T I S Y V A P I Y Q G K N N L L Q S N S S A S R R G L I H V S I D E L F P I K E Q K K R K S. cerevisiae												
220	L E V D T D Y A I I E N S -	-	K K S L P L K R N V S -	-	P J S T H T K K R R S. pombe								
283	S I D S F I K E I D Y V K R D W T N C D K F D H Y S K D L V L S T T D W D D D A I I N A G D N E Y S I V K P I N E L L L C. albicans												
315	I I H D - E K T I -	-	S E D L L I A T D D W D Q E K I I N Q G T -	-	S S T A T L A D S S M S. cerevisiae								
355	R T A N - T S Q R -	-	N D G L -	-	D L N T V F T S. pombe								
443	N N P L D N S K Q N R Q K I E N D N T T N N Y N -	Q N N S N V Q D E E E -	D D D I F N G Q I N L D K L K L D M N D P N L C. albicans										
555	T P N L K F S G G Y K L K S L I E D V A E D W Q W D E D M I I D A K L K -	E S K H A E L N M N D E K L L L M I E K T N N S. cerevisiae											
274	T N D W E K N I I Y D E S D V N K T N Q S S F -	I D K S L V D I D F A F D E N I F D G D T G T S K V V L N L N D P K L S. pombe											
401	L F V P S -	-	K K V D A T K S V V P S T D K -	L L E L K F N I S N D Q E Y E L L R K N Y N T K Q R S I Q L S N L N I E H S C. albicans									
114	L A Q O K -	-	O Q L D S S N L I L P L N E T -	I L Q Q K F N L S N D D K Y Q I L K K T H Q T K V R S T I S N L N I Q H S S. cerevisiae									
333	L L Q P Q L P K K E D S Q R S F A D T H Q R N S L A W K F N I S N D P A Y E M L K Q N H Q S K V R N I T S Q L A I E H A S. pombe												

---

A

**FIG. 5B**

A

15	K	G	K	D	K	E	K	D	K	E	K	D	K	E	K	D	E	I	V	E	E	E	L	A	P	W	N	L	S	R	N	F	V	I	A	N	Q	T	K	T	M	L	Q	L	N	G	<i>C. albicans</i>				
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L	E	E	N	L	L	P	W	N	I	T	K	N	F	I	N	S	T	Q	M	R	A	M	I	Q	I	H	G	<i>S. cerevisiae</i>				
104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	E	E	Q	P	A	E	Q	L	L	A	P	W	I	T	T	R	N	F	I	N	A	T	Q	G	K	A	M	L	T	L	F	G	<i>S. pombe</i>

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**FIG. 5C**

158 V V - - - G  
064 S P - - - K  
73 A T M L D K N

**FIG. 6A**

[illegible]

A\_\_\_\_\_A

FIG. 6B

A

A

377 EDDIENGQI - - - - NL - - - - DKLKLDMND - - - - DNLLEVDS - - - - KKVDATKSVV - - - - PSTDKL - L - E C. abicans  
389 FDESK - HAEL - - - - NMNDEKLLMIEK - - - - TNNLAQQK - - - - QLDSNLIL - - - - PLNETI - LQ S. cerevistae  
399 FDESK - DGDT - - - - GTSKVVNLND - - - - PKLLOPQLPKKDSORSFA - - - - DTHQRNSLA S. pombe  
528 QVSKVPKPKVLTLDPNDENILGIPDDIDPSKINKSTGPPIKIKIPHPHVKKSKILLGKAGVINVLAEDTPPPKSPDR Drasophila  
490 ANPRLLEPPVLTLDPNDENILEIPDE - - - - KEEATSNSPSIKESKESLKKSRILLGTGVIK - - - - EEPQQNMSQPEVK Human  
424 LKFNISNDQEELLRKNYNTKQRSQLS NLNIEHSVIPA LRLQTPYYKVKLISTDETRSFHRP"F - - - - NVRPGTLVSIFS C. abicans  
437 QKFNLSNDDKYQILKKHQTKVRSTIS NLNIQHSQPA INLOS PEYKVAVPRYQLRHEHRENF - - - - GSHIRPGIKIVFS S. cerevistae  
359 MKFNISNDPATEMLKQNHSKVRNILS QLAIEHAAFA EKLTPYYKTRISKRAVRSIYHRPTM - - - - S - - - - FKPNAAIVFS S. pombe  
608 DPENISNDTYT - - - - PKTEPTLRLKVGGNLIQHSTPVELRA PEVPITHGPMNVRAFHRPPLKKYSHGPMAQSIPHPVEP Drasophila  
563 DPMNLSNDEYY - - - - PK - QQGLRGIFGGNILQHSIPAVELRQPEFPITHGPIKRQEHRPPLKKYSFGALSQPGPHSVQP Human  
497 KLRKRKKGKSLQQI - - - - - FSKISDLTVADTGNILALEYSEQYPILSNFIGMGSKLINYYRKERPNDTSRPKAQ C. abicans  
512 KLKARKRKDKGDVKES - - - - - ESTSQDLTIGDTAPVILMEYSEQIPVALSKFIGMANKLINYYRKAINEQDILRPKLP S. cerevistae  
432 PLIVRKRSKDKHXSEREL - - - - - IPTIKEIMGDTHALVEFSEEHPAVLSNAGMASRIVNYYRKKNEQDESRPKLE S. pombe  
685 LLKTIAKKAQREVERIASGGGDVFFRNPEDLSGRDGDIVLAEECEEHPPLINQVGMCSKIKNYYRKKAEKOSGPQDYV Drasophila  
639 LLKHIKKAKMREQERQASGGGEMFHRPIQDLTGKDGDLLAEYSEENGPLMNQVGMATKIKNYYRKPGKQPGADCK Human  
570 IGETHILGVEDRSPFMNFGEVAPGDFVPTLYNNMVRAPIFKHDNKPDFLVKSQGAGSHQKFYLRGINFNFAVGNTFPV C. abicans  
585 VGEIHVLGVQDKSPFMNFGEVEPGHIVPTLYNNMIRAPVFKHDISGTDFLLTKSSGFISNRFYLRNINHLFIVGQTFPV S. cerevistae  
585 VGESHVLGVQDRSPFMNFGSVEPGEITPLYNNMIRAPLFKHEVPPIDFLIRNSS - SYGSKYYLKNINHMEVSGQIEPV S. pombe  
765 YIGEV - - - - AFAHTSPF - LGILHPGQIQAIENNMYRAPIYPHKMAHNDFLVIRTR - - - - NNYMIRSVNSIYTVGECPL Drasophila  
719 YIGEI - - - - VYCHISPE - - LGSLHPGQLLQAFENNLFRAPIYLHKMETDELILTR - - - - QGYIBELVDIFVVGQCPL Human  
650 EVPAPHSRKVTNISKNRLKMVVFRVM - - - - NSLGVPRISVKDVSKHFPEHSDMQNRQRLKEFMEYQRQGEDQGYMKVRGLN C. abicans  
665 EEIPGPNSRKVTSMKATRLKMIIYRIL - - - - NHNHSKAISIDPIAKHFPDQDYGQNRQKVKEFMKYQRDIGPEKGLMRLKD - D S. cerevistae  
584 TDVPGPHSRKVIIASKNRLKMLVERI - - - - RIRSPNGGLFIROLSKHFSDQNEMOIRQRLKEFMEYKKIGDGPGYMKLS - N S. pombe  
835 YIEVPGPNSKRANNTRDFLQVIFIRLFWKSRDNPRRIRMEDIKAFPIAHSESIRKLKQCADFKRTGMDSNMVIKP - E Drasophila  
789 FEVPGPNSKRANTHIRDFLQVIEIYRLEWKSKDRPRRIRMEDIKAFPISHSESIRKLLCADFKRTGMDSNMVIKS - D Human  
727 DVIPEEEFIRTMITPEDSSLMDTMQFGQVLDDNMVLF  
742 EKLLDNEAVKSLITPEQISQVESMSQGLOFQEDNEA - Y  
661 EVVPDEAGIRSMVSPETVCLLESMQVGRQLEDAG - - - - Y  
914 FRLPSEEIRAMVSPECCAYSMAEQRLKDAG - - - - Y  
868 FRLPTEEEIRAMVSPEOCCAYSMAEQRLKDAG - - - - Y

C. albicans  
S. cerevisiae  
S. pombe  
Drosophila  
Human

B

B

# FIG. 6



***SUBSTITUTE SHEET (RULE 26)***

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30° C

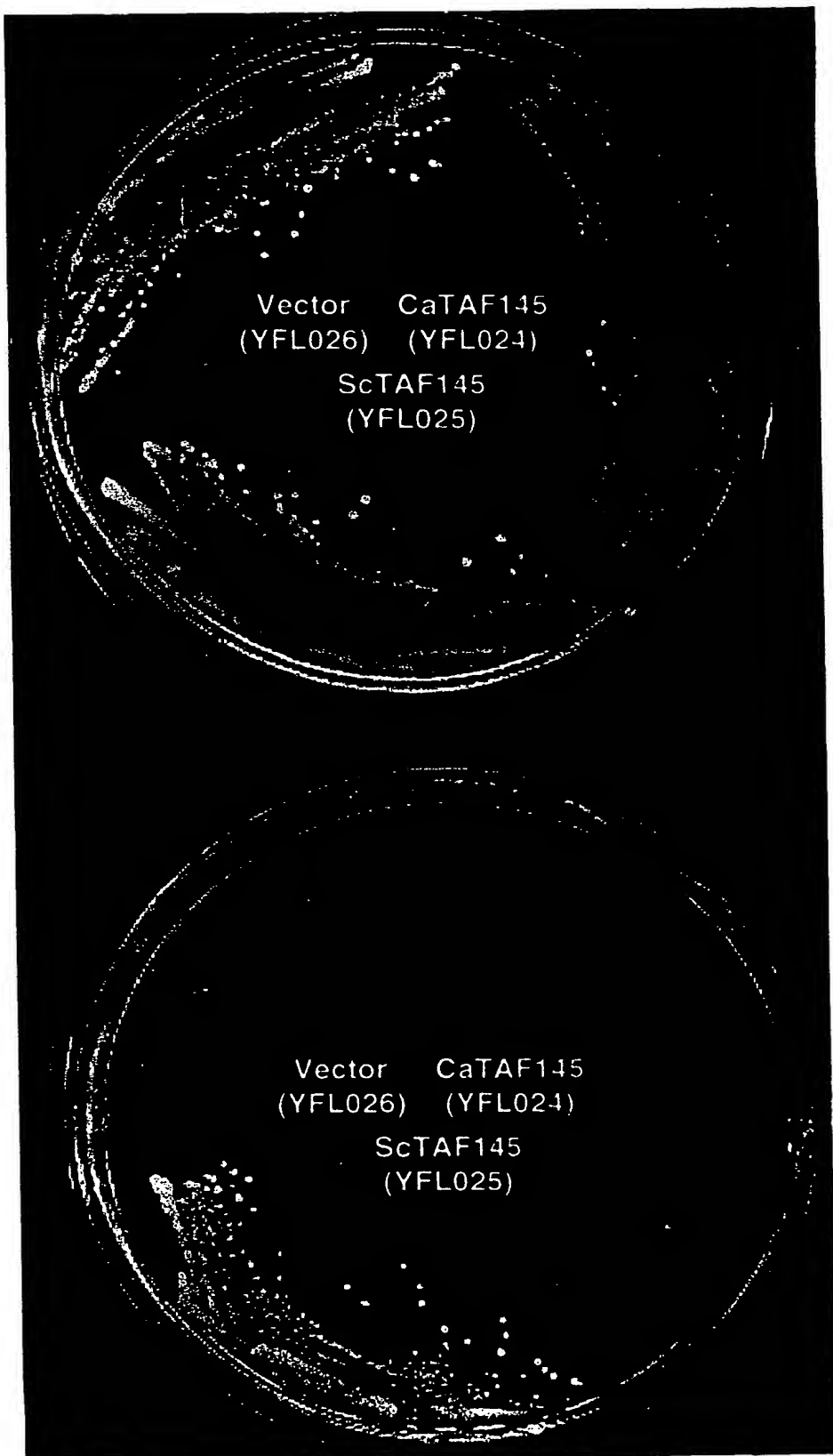


FIG. 7A

37° C

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SC - Leu

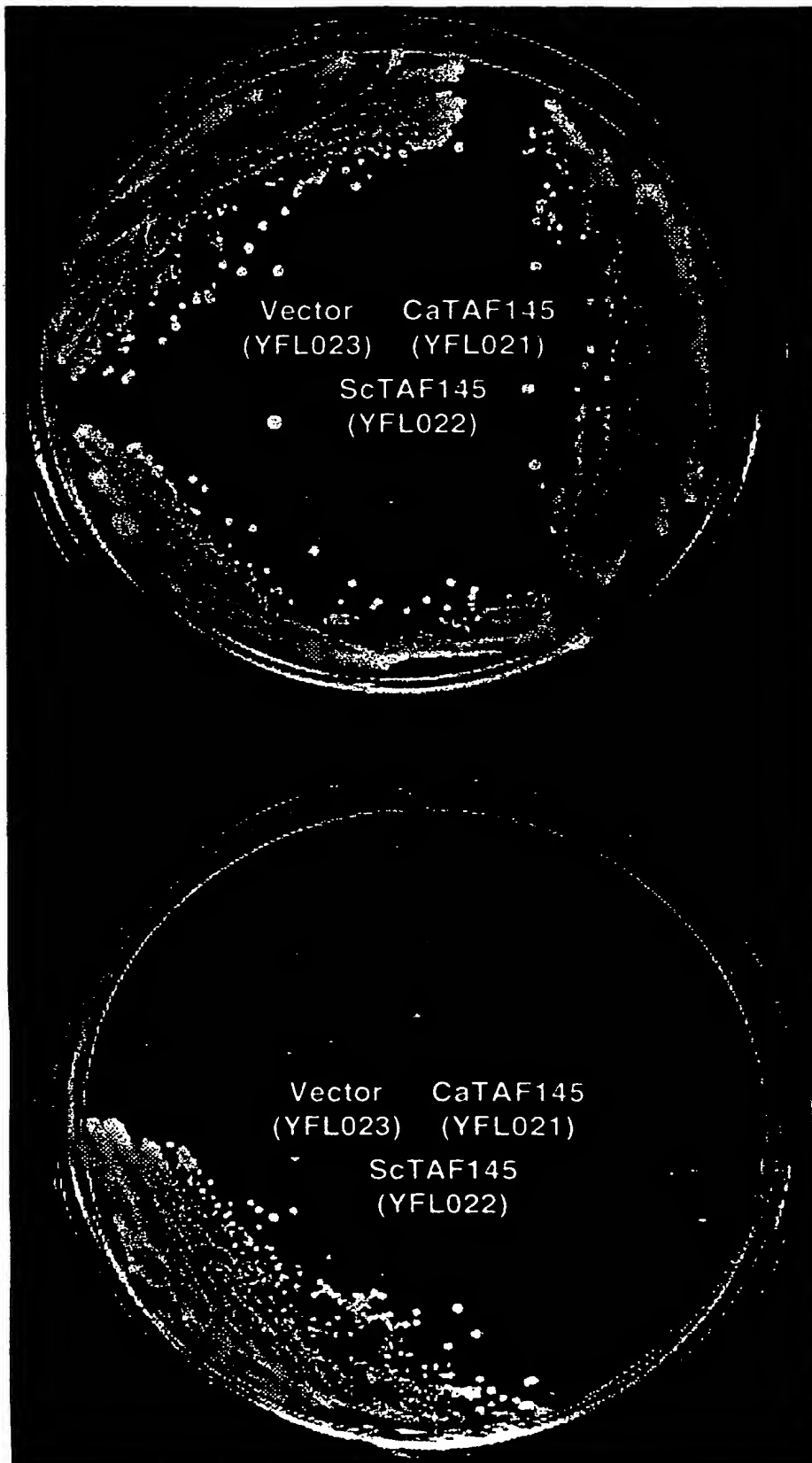


FIG. 7B

SC - Leu + 5-FOA



090106Z 110200Z

**FIG. 8A**

[illegible]

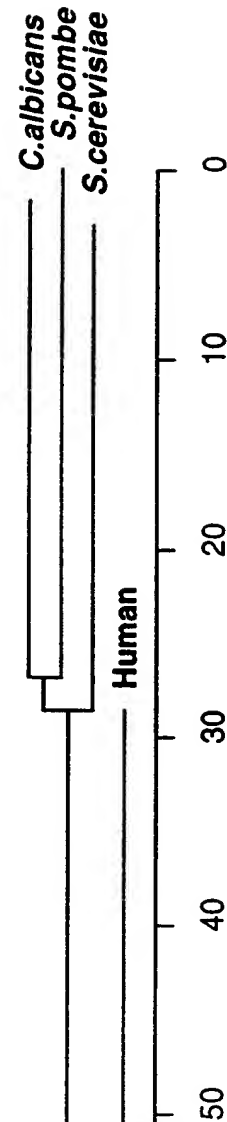
A

FIG. 8B

A

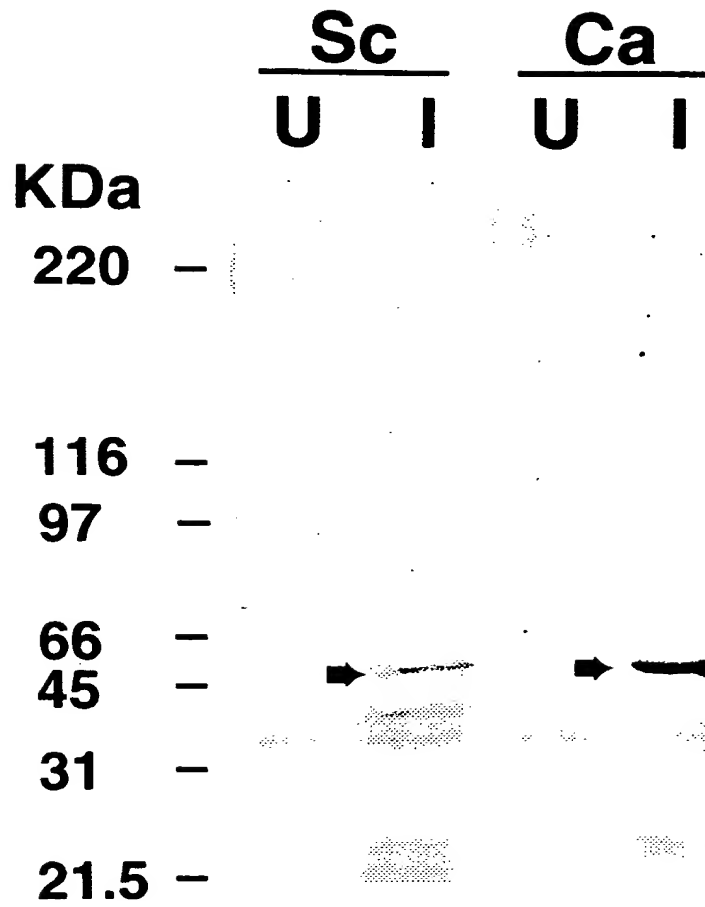
A

581	R	S	P	F	W	N	F	G	E	V	A	P	G	D	F	V	P	T	L	Y	N	N	M	V	R	A	P	I	F	K	H	D	N	K	P	T	D	F	L	L	V	K	S	Q	G	A	G	S	H	Q	C. albicans																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
596	K	S	P	F	W	N	F	G	E	V	E	P	G	H	I	V	P	T	L	Y	N	N	M	I	R	A	P	V	F	K	H	D	I	S	G	T	D	F	L	L	T	K	S	S	G	F	G	I	S	N	S. cerevisiae																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
516	R	S	P	F	W	N	F	G	S	V	E	P	G	E	I	T	P	T	L	Y	N	K	M	I	R	A	P	L	F	K	H	E	V	P	P	T	D	F	I	L	I	R	N	S	S	-	S	Y	G	S	S. pombe																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
727	T	S	P	F	-	-	L	G	S	L	H	P	G	Q	L	L	Q	A	F	E	N	N	L	F	R	A	P	I	Y	L	H	K	M	P	E	T	D	F	L	I	I	R	T	R	-	-	-	Q	Human																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
631	K	F	Y	L	R	G	I	N	F	A	V	G	N	T	F	P	V	E	-	V	P	A	P	H	S	R	K	V	T	N	I	S	K	N	R	L	K	M	V	V	F	R	V	M	-	-	N	S	C. albicans																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
646	R	F	Y	L	R	N	I	N	H	L	F	T	V	G	Q	T	F	P	V	E	E	I	P	G	P	N	S	R	K	V	T	S	M	K	A	T	R	L	K	M	I	I	Y	R	I	L	-	-	N	H	S. cerevisiae																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
565	K	Y	Y	L	K	N	I	N	H	M	F	V	S	G	Q	T	F	P	V	T	D	V	P	G	P	H	S	R	K	V	T	A	S	K	N	R	L	K	M	L	V	F	R	I	-	-	R	R	S. pombe																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
770	G	Y	Y	I	R	E	L	V	D	I	F	V	V	G	Q	C	P	L	F	E	V	P	G	P	N	S	K	R	A	N	T	H	I	R	D	F	L	Q	V	F	I	Y	R	L	F	W	K	S	K	Human																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
678	L	G	V	P	R	I	S	V	K	D	V	S	K	H	F	P	E	H	S	D	M	Q	N	R	Q	R	L	K	E	F	M	E	Y	Q	R	Q	G	E	D	Q	G	Y	W	K	V	R	G	L	N	D	C. albicans																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
694	N	H	S	K	A	I	S	I	D	P	I	A	K	H	F	P	D	Q	D	Y	G	Q	N	R	Q	K	V	K	E	F	M	K	Y	Q	R	D	G	P	E	K	G	L	W	R	L	K	D	-	D	E	S. cerevisiae																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
613	S	P	N	G	G	L	F	I	R	Q	L	S	K	H	F	S	D	Q	N	E	M	Q	I	R	Q	R	L	K	E	F	M	E	Y	K	K	K	G	D	G	P	G	Y	W	K	L	K	S	-	N	E	S. pombe																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
820	D	R	P	R	R	I	R	M	E	D	I	K	K	A	F	P	S	H	S	E	S	S	I	R	K	R	L	K	L	C	A	D	F	K	R	T	G	M	D	S	N	W	V	L	K	S	-	D	F	Human																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
728	V	I	P	G	E	E	E	I	R	T	M	I	T	P	E	D	S	S	L	M	D	T	M	Q	F	G	Q	Q	V	L	D	D	N	M	V	L	-	F	G	E	Q	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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FIG. 9



09601965-102000

FIG. 10A

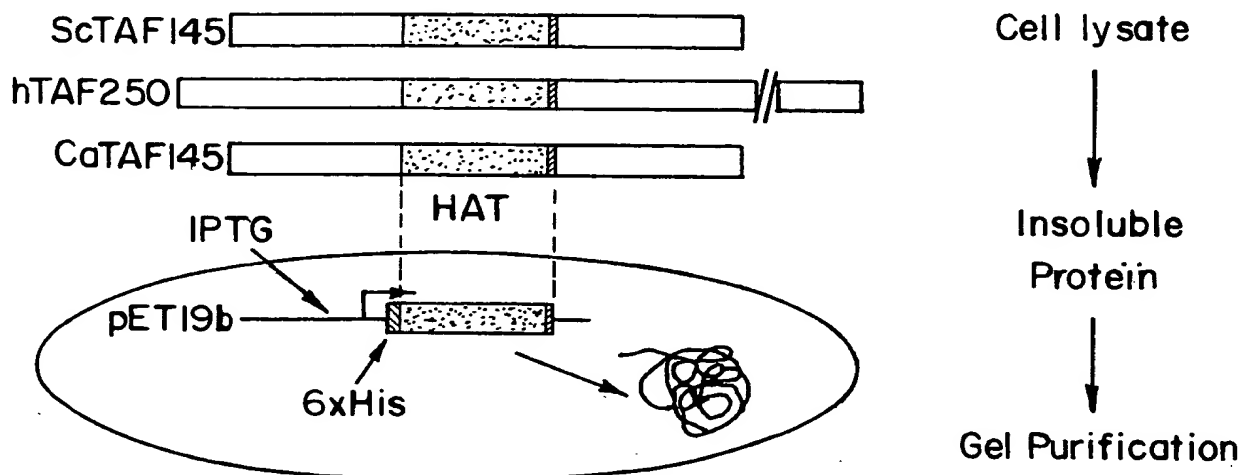
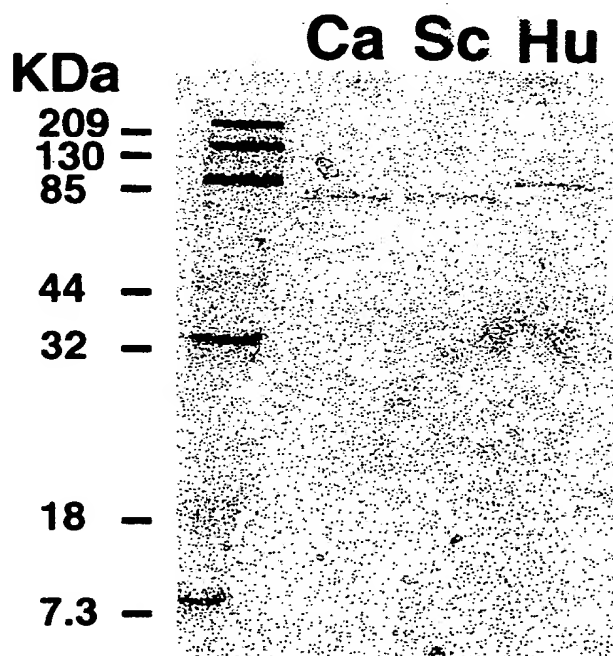


FIG. 10B



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FIG. 11

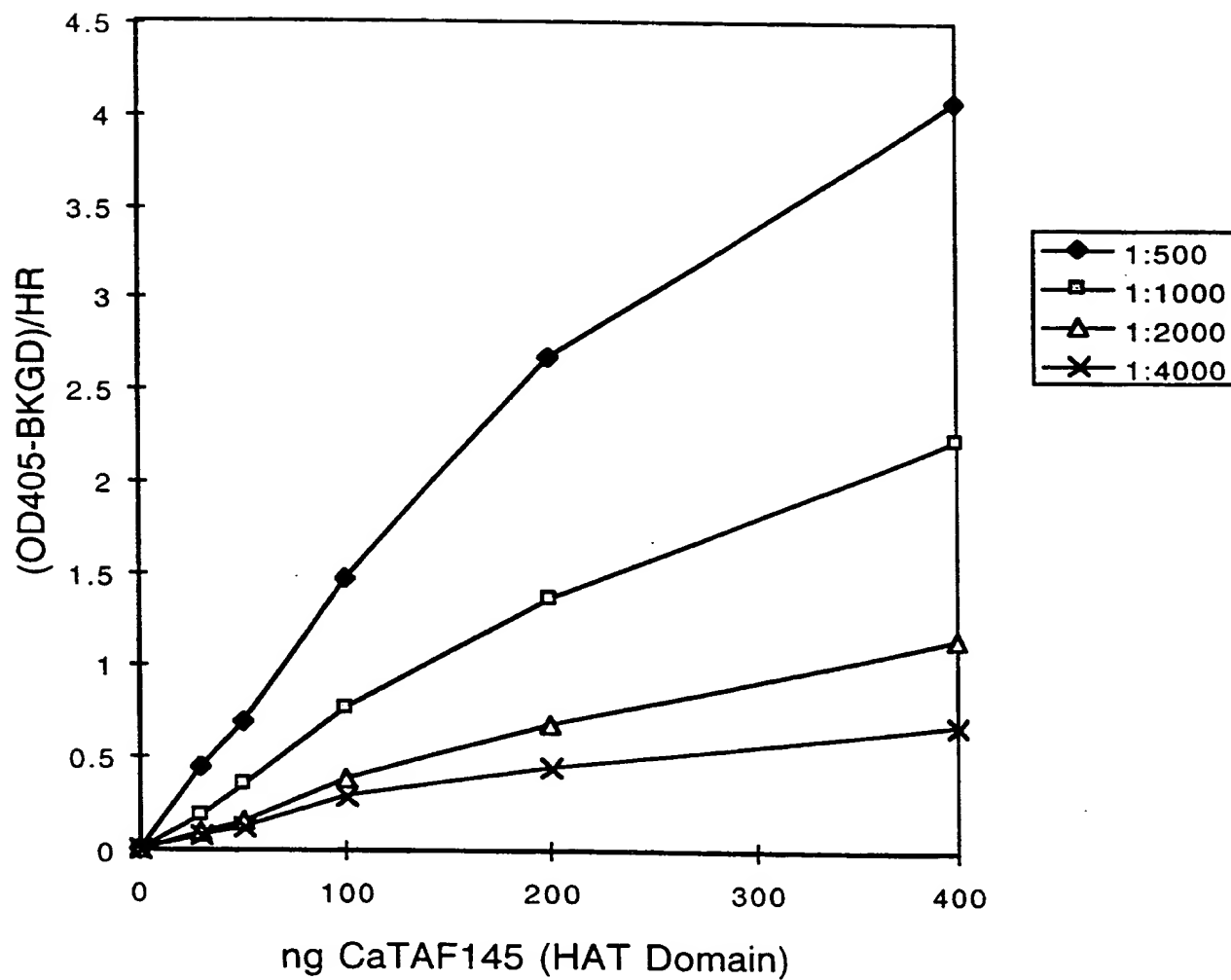
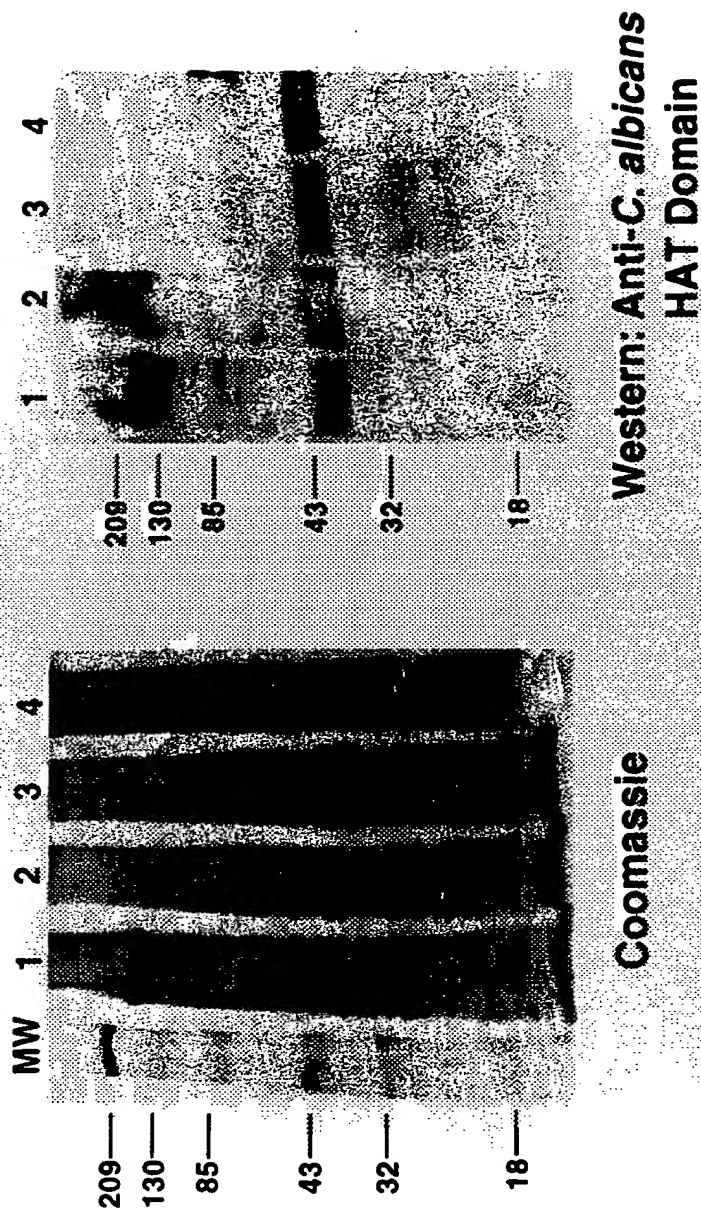
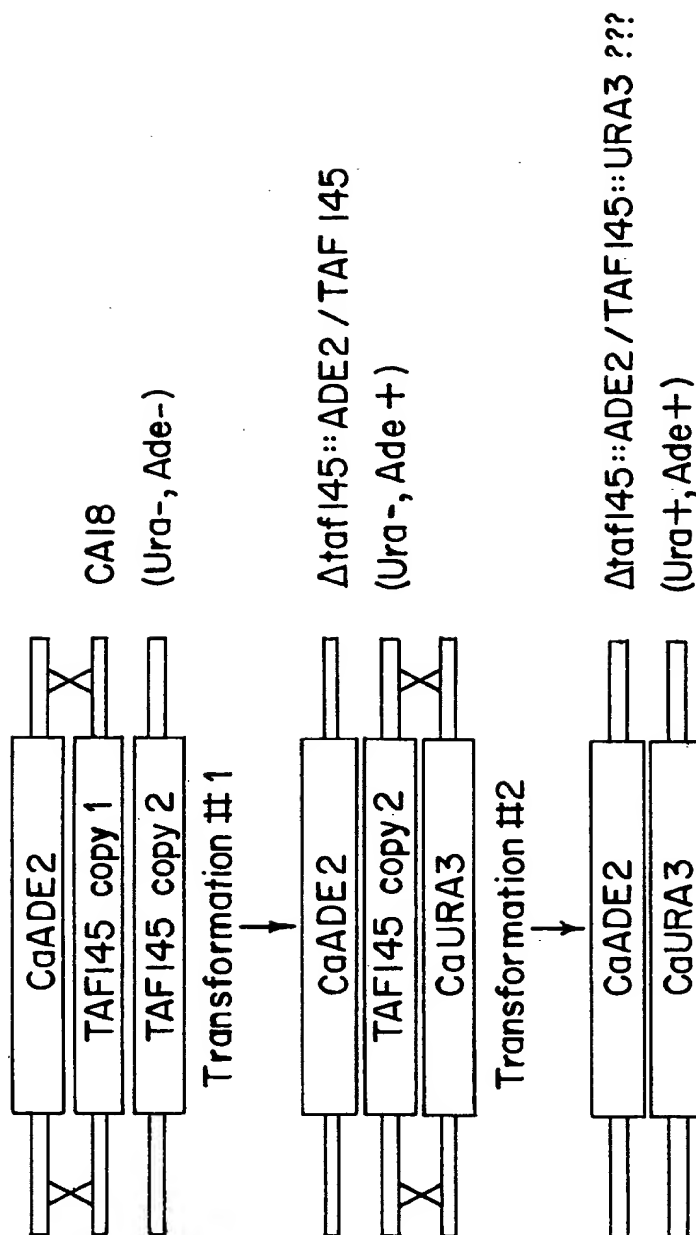


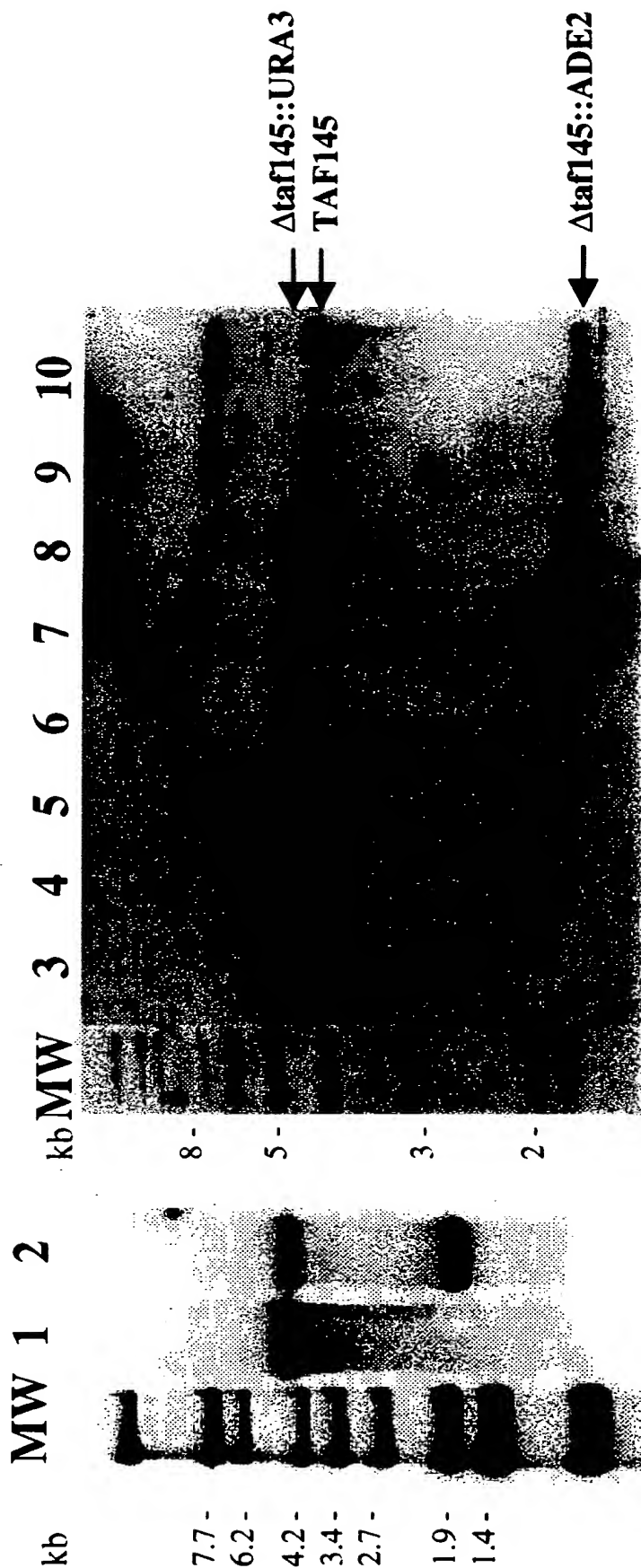
FIG. 12



1. Human TAF infected High-five cells
2. *C. albicans* TAF High-five infected cells
3. Mock-Infected High-five cells
4. Non-infected High-five cells

FIG. 13A





Lane

- 1 TAF145/TAF145 (CAI8)
- 2 Δtaf145::ADE2 / TAF145
- 3 TAF145 / Δtaf145::URA3
- 4-10 Δtaf145::ADE2 / TAF145, Ura+

FIG. 13B